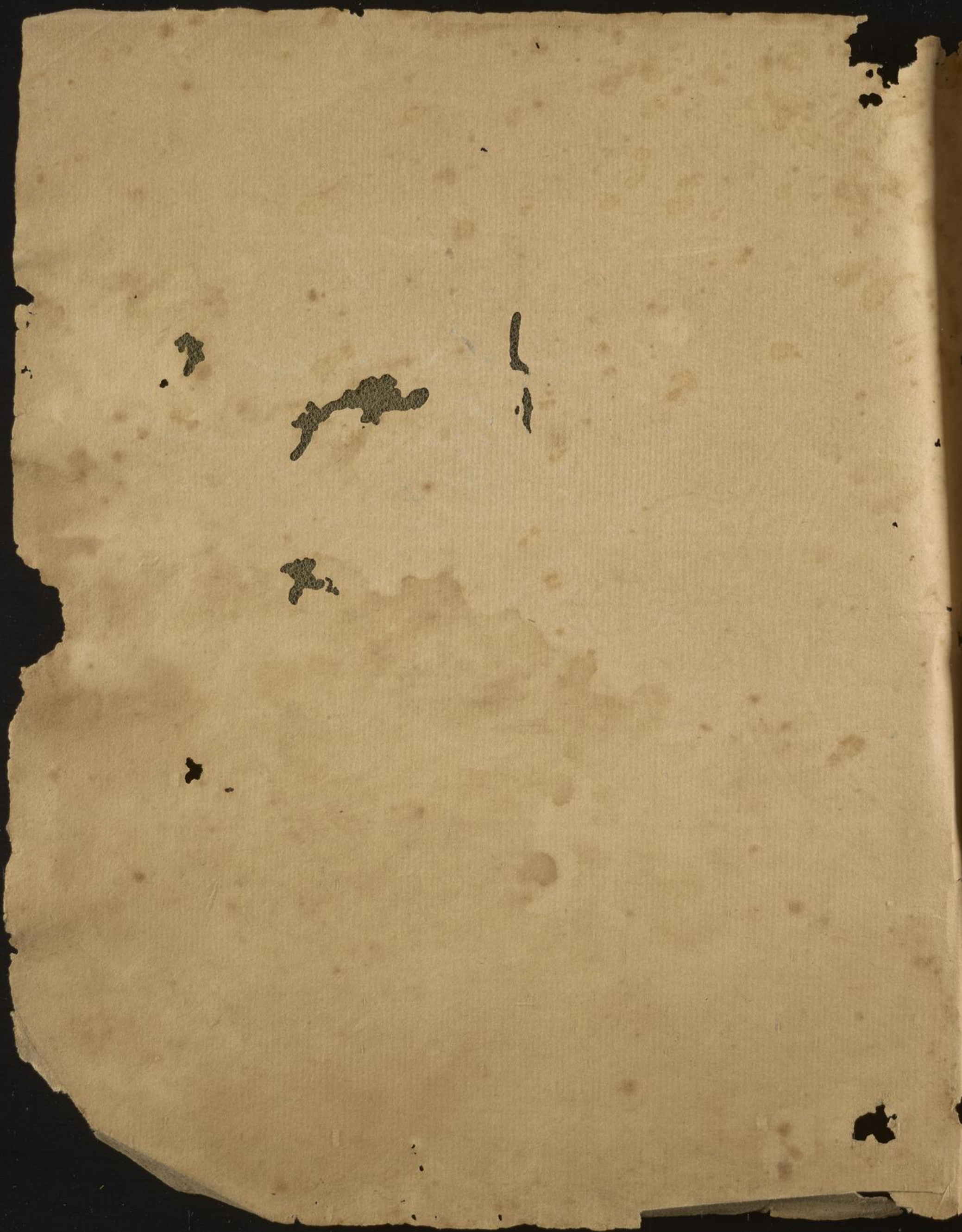
Cases of
Chronic Diseases.
Began in Philad.a:
1770.
By
Wm. Buchan



Hæmoptoe.

1 1770 — Nurse Rice (aged 38) - Spit blood in small quan-
-tities - much relieved by a Stool in her side. She
had long been subject to a weakness in her
Breast - Slow Fever - Cough &c.

2. Mr Leiper's Man (aged 24) born of a Mother who
was subject to a Spitting of Blood ~~all her life~~
for many years - Spit near a Quart of Blood
in two Days — Pulse remained hard & full
I bled him 3 ~~Days~~ times within 4 Days - Blood
very size - It was the Season of Inflam. Diseases
being June. many Inflam.y Disorders prevailed
this Month. I kept his Bowels open - ordered him
low Diet, & instead of eating 3 times a Day, to divide
his Meals, & eat 6 times a Day. This I did to prevent
Irritation. It succeeded. The Man recovered.
- a Patient in this Disorder should never be
bled during the Actual Spitting of Blood, for by so
so doing we check the Discharge from the Lungs

Epilepsy.

Mr. Ferguson's Daughter (aged 18) from being bed in the Foot in a bad Cold in Devon 1769. was immediately seized with Convulsions of a Hysteric kind which continued for near a month – till her Senses returned. These Fitts returned every 2 or 3 weeks for some time. She took Back Steel &c for sometime but to no Purpose. – She used the Cold Bath 8, or 10 times. After this a Crusta Lactea appeared on her Head which covered ~~the whole of~~ every part of it. Her Fitts now left her. Her Mother applied to me to cure the Eruption on her Head; but I declined it, & strictly forbid her doing any thing to it. – She has continued perfectly well these 4 or 5 Months. Does not this suggest the Hint concerning the Advantage which Issues, or Setons in the Neck might be in Epilepsy? –

Asthma

Juba a negrowoman (aged between 60 & 70) has for these 15 years been seized the w: a periodical Asthma the 20th of every May w: generally continues 6 weeks. I broke the Paroxysm entirely in a few Days by ~~giving~~ giving her a ~~few~~ Solution of ℞ Succ: in water the w: a few Drops of Thebaic Tincture in it.

The Asthma returned May 20 1771. cured ut antea.

Mr Burdeaux - afflicted 6 months with an Asthma was inoculated for the small pox - took ℞ to prepare him - was cured of his Asthma. - returned well to Charles: Town South Carolina. -

+ especially in p 5.

Hypocondriasis.

1 Mr: Macpherson from a long con: series of Troubles became Hipocondriac. had most of the Symptoms mentioned in Dr Cowling Thesis + together w: an Obstinate Cough, & a plentiful Discharge of Phlegm - &c - &c. This led her Physician to suspect y: she had a Phisis pulmonalis - She died after lingering a few weeks, but without either Night sweats, or Purging w: generally attend the last stage of a Consumption.

2 Ben: Barger (aged 26) a Shoemaker by Trade, by the sedentary Life he followed, as well as by some thoughtfulness ab: Religion had all the Symptoms of a Hipocond: joined w: an Inter=mittent Fever. he had had the first 4 Years. - To remove the ~~Ty~~ Intermit: Fever I gave him Bark, After this I gave him several

Doses of Calomel wch touched his mouth, & made him spit plentifully for some days. — This cured of all his Camp. & he now enjoys tolerable good health! —

+ See Buffon's nat: Hist: of the Horse p: 12 in wch he says they are always found in young Colts. —

+ in wch he gives an acc^t of an Epidemic worm from Volchines in Italy.

D^o: p: 468 — another Epid: Worm Fever. —

a worm Fever wth Epidemic all the Symptoms of both Disorders p^d cured by worm med: described from Vandermonde by Saw: Vol: 2 p: 329

See Pringle p: 8 — Fever not owing to Worms — the same Heat — moisture — & putrid state of the Air wch brings on one — favours the other. true! See p: 178.

Worms —

Have never been looked upon as a Disease but the Consequence or Cause of a Disease — They are the Cause of many — the Consequence of not so many as has been imagined. Healthy Children in the Country as well as Town subject to them & Healthy Animals of all kinds — weakly Children not always subject to them — may not this be y cause of y^r being weakly? They are unknown in many Countries [See Palmer's Thesis] — may they not be Epidemic sometimes? [See Do: & Dr Huxham's Epidemic Vol: 2. p: 56. & 136. see also Leic: Vol: 1 p: 76] In the former Case supposed to be owing to bad Corn w^h has been putrefied the Augt before by w^h is called Mill Dew. — In Putrefaction Animalculæ appear — were they carried in from this Corn? Bread is ye Alim^t of the greatest part of Mankind particularly Children — see also the Diseases of June 1770 p: 3 in Epid: Nost: — see Pringle & Monroe on the Camp Dysentery. They often bring on

O. See also p: 218 - a strong Confirm.n of this -
- They wou eat thro' the Gutts, for want
of proper Aliment.

But may not Worms sometimes
excite a Fever w.h will partake of y.e Symptoms
of the Epidem: such as Inflam: malign.t
or Intermitting? -

a violent Fever - See Rivers: Vol: p: 127. 17 ch. mw:
he mentions Febris Acutissimus &c.

Who are most Morbi Predisponentes subject to it? Child.n: after
Weaning says Saun: Vol: 2 p. 338. meat he
says favours y.e ~~Fever~~ Generat.n - Milk &
Summer Fruits dont favor y.m: - Mendoch's
Child 3 months - Mother little milk - Child lived
chiefly upon Bread - water - Sugar & Butter made
up into Pap - discharged a Worm 3 Inches long -
had bloody Stools before disapp.d: upon y.e Discharge
Dolens says he saw a Child of 3 Days old discharge
of the Worm. - Child.n help Cps - Milk & Fruits
a Worm. offered to y.m: Spontaneously by Nature - Nature
kind - few Diseases Cro't on by her - Inp.s they
do not favour the Form.n of Worms - Gruels - Water

vol.

Historia morbi

The want of Pulse - & the low intermitt.
Pulse described by River: Prol: 2. p 207-8
112 - to be insisted on. Case of Tormina
from 20 being knotted together Do p: 340.
- They sometimes creep thro' the Bowels - or
Groin - see Pulsp: p: 199 - of the Taylor's wife.
- ~~Rum~~ The Symptoms resemble a
true Hysteria - Amen: Acad: Delii. p: 345
Cas: 3. ~~was~~ taken from Sauvage vol: 1 p 58
- cured by a Discharge of a knot of Worms by
means of a Purge. Phrenitis occasioned by
but also Parergi p: 28.
Worms see Sennertus taken from Sauvage
vol: 1 p. 461. - Violent Pain in the Anus
see Sauv: vol: 2. 146 - cured by Tobacco - &
Salt Glysters - Alvi Capitas noctu superveniens
sed Inconstans Sauvage p. 688 vol: 2.
Sudores nocturni - Lieut: vol: 1 - p 74
Convulsions Do. p 75 from vermes
dens agmine in Glomeramen - pugni

4 — Obstructing the Duct: Com: Coly d:
Vol: 1 p. 211

terrible Cries — affected like witch craft from
a Tænia — p: 77.

Tetanus — congestion of worms — see
& eroded Colon.
Saun: Vol: 1 p: 544

Grinding the Teeth. —

a Cough attended w.th a Flushing in one Cheek

Singultus — Saun: Vol: 1 — p: 636.

Apoplexy — from a Tænia — known by
a Dyarrhœa — Tumors & flying pains in y.e Belly &c
Saun: Vol: 1 p: 857

Inordinate Appetite — said to denote y.e Tænia
Saun: 2. p: 217.

Cardialgia — worms vellicat.g y.e Coats of y.e
Stomach: Vol: 2 — p: 92.

Colera — see D.o Vol: 2 p 354

Colic D.o — p: 101 — from Lumbrici — known th
to proceed from this Cause when attended w:
Stools in the night.

Plenrosy — River: Cent. 1 — Obs: 75 from Lum.
Brici
Atrophy — Vol: 2 p: 465 from Hoffman.

molem aquam ~~et~~ convolutis & mirè contortis".

Intermit. Fever - or double Tertian ending in Convulsions - the same Phænomena in the Jejunum - p: 75. a Cough

Convulsions - ~~from~~ succeeding Shrieks - & Inquietude in the night - bored by a Lumbricus teres perforating the Duod: in a Chd. of 2 years old. — Do

Lethargy in a Girl of 11 years old - from 12 Worms in the small Guts conglomerated.

Symptoms of a malig: & Inflam^y Fever. see Lei^d - p: 76 & most: Epid: p: 3. taken from Velchius. —

Pulm^ic Comp^t. of the Inf^ts kind from Worms conglomerated. — in the Stomach & Bowels p: 76 - doubtful? —

Intermit. & remit^t Fever.

Obstinate Dysentery - worms separated conglomerate. p: 76

Violent pains in the Bowels - Bowels cut thro. p: 77

Do from Rir: p: 77 of Leid^d

a Jaundice wth Fever be from Lumbrici

Plus - Saun: Vol: 2. p: 350.

Obstinate Nausea - from a Tenia - Do p: 335 -
Taken from Hildanus - Cen: 2 Obs: 70
Orthopnoea - occas: by worms rising in the
Throat from the Stomach. Vol: 1 p: 674
Purpura - Saun: Vol: 1 p: 449 from Hist:
de l'Ac: Scienc: 1714. p 14. A
Syncope -
Vomiting - Saun: Vol: 2 p: 338 fm Hoffman
Dry Cough called by Saun: Tussis Gutturalis
indicates Worms in the Throat
Apoplexy - distinguish: from it by the
low Pulse & cold Extremities. Sient: Precis &
p: 342 -
Sour Breath - Starting in Sleep - lying on
the Belly - picking the Nose - Doubtful? - a
Motion of the Pharynx like Swallowing during
Sleep - irregular Appetite - -
wringing y^e ~~Hand~~ Belly w: ye Hands. Baglivi
a Deep of Blood in continual Fevers. Do
all the Symptoms of a Pleurasy - see a

History

Form of the Worms &c

See an Acct: of a flat Lumbricus in Rid. vol: 2 p 353 wch was 7 Feet long. – see Tulpius p: 163. – another Acct of a flat: Do – worms in the nose. Tulp. p: 299 – obstinate Headach cured by their Discharge. –

The female worm contains not less than 6,000 Eggs – this accounts for this great Increase in the Body. many hundreds of them must be distroyed, & discharged unobserved in the Faces.

I see an Expt to this Purpose by Fozzi I or if this is not the Case they must not all be impregnated – but like the Bees have many Males. I see Lowenhoek Epistola ad P: Regiam p: 257. – a few Females. – The Head of the Bee is always female – & has never less than 7,000 Eggs – when she copulates two or three times every year brings forth as many Eggs as she has known Males – Was it otherwise no Hive wd contain the vast Increase of them

particular Acc^t of this in Morgani p: 634 vol: 1
in Rier: Vol: 2 - p: 82 -
- was not ye Pleurisy here the original
Disease? - perhaps depending on Contagion? -
- the worms accidental - formed by the
same Reason &c w^h bred the Causes - Morgan^i
says in most the Thorax &c were a little
inflamed - The Pleurisy may have been
Symptomatic -

v They are 1st Pain in ye Side Obtuse
& intermitting 2 White uncontrolled Spittle
3^d Fever regular - 4 Pulse low small &
unequal - 5 Abatement of ye Symptoms
till the 6 - or 7 Day - then great Prostration - Day
of the Return: & the Skin of a livid Color. -

After all - no Sympt: pathog: but
the Discharge of Worms - & even here y^e
times in ten the Consequ: of the Worms -
always suspected in all the Diseases
w^h they have at any time afflicted

under

Tobacco & Salt Egypt: used the Morbus Brasill: vermis dictus – see Saun: vol: 2. 146.

Salt by Saun: vol: 2 p: 689 –

Salt water by Mead. – mont of Child: as well as other young animals have a Propensity to Salt & Sugar. Salt by Cels: p: 227

℞ ℥. ℥ss Sach: vel Mel: ℥i Coq: in Aq: font: in vas: Cupreo ℔ mis: ⊀v – bibat Ager vacuo stomacho Vom: & alvi Laxitas cientur de Glaub: part p: p: 41

In the Epidemic worm Flux Bread toasted & spread wth Garlic recom: from Boyer by Saun: vol: 2 p: 329

a strong Dose of ℥ wth Scammony recom: by Baglivi in violent Cases. see also Rivet: vol: 2 p: 22.

Worms are often concealed in ye Gutt Colon where no medicine can reach them.

Do:

Exp.ts on the Anthelmentic Power of Sundry Vermifuge Medicines. —

They act directly or indirectly. Such as act indirectly are.

1 Bitters. & Astringents

a Worm put into a watery Rc of Aloes lived 2 hours & 48 m: Substances — Time

Worms — —	+ Watery Rc of Rhubarb.	14 & 1/2
— —	— Bark —	Do. —
— Tea —	— no Effect —	

2 Aromatics

In Camphor — died — 5 m:
In

+ When Worms are lodged in ye stomach & killed there, it is rare y: they are discharged whole - By the Action of the Stomach they are ground to Peices - & perhaps go to nourish the Body. Earth Worms eat in the East Indies.

See Bamarche -

3 Purges.

In a watery Ext. of Jallap — Above 1 Hour
In Sweet Oil — in 2 Hours & 1/2
In Beans foot — 1 Hour & 17 m.
In Gutt: & Gamb: - Above 1 Hour.

4 Vomit

4 Vomits —

Such Med.: as act directly on Worms are either Chemical or mechanical. Those w.h act chemically are. +

1 Salts of all kinds

A Acids.

In Vinegar — died in 1 min 1/2 convulsed
In Lime Juice — in 1 m.
in diluted O7 — in 1 m & 1/2

+ Powder of Steel — died in 25 m: & 1/2 -

~~worm the foot have~~

In Powder of Tin — died in Above an Hour.

In Blue Vitriol — died in 10 m:

In Powder of Steel with vinegar - worm discove-
red at first marks of Uneasiness. but lived
above an hour.

Rock Alum — 10 m:

Vitriol. Album — 1/2 an hour.

B Alkalies

with Sal: ⅌ died in 2 m: convulsed throwing up a mucus on ye: Surface of the Water.

C, Neut: Salts

with Common Salt - died in 1 min: convd:
with Nitre — — — died in 1 m: Do
In Sal Diuretic — died in 1 m:
In Sugar & Com: Salt died in 4 m:
In Sal. Ammon: — in 1 m & 1/2 -

D, Earthy Salts & metallic.

Solut: of
In Corr: Sub: — died in 1 m: & 1/2 convulsed
In Calomel — died in 49 m: languishing.
In Epsom Salt — died in 15 m: & 1/2.
In Sach: Saturn: — in 3. m.
In Turpeth: min: — in 1 m: convulsed
In Sal: martis — — in 1 m: Do

2 Cal: Earths.

Chalk — no Effect — lived 2 Hours.

an Infus: of 3 Sedatives.
In Carolina Pink Root - died in 33 m: Slowly
in a watery Tincture of Opium died in 11 m & 1/2 conv?
In Tobacco - — died - in 14 m:

4. ~~Spirit~~ fermented Liquors.

In common Spirit - died in 1 m: convulsed.
In Wine of Madeira died in 3 m: Do
In Claret — — — in 10 m:

5 The Juice of ripe Fruits.

In red Cherry Juice — died in — 5 m. & 1/2.
In Black Cherry Juice - in 5 m:
In Currant Juice — in 2 m & 1/2 -
In Goose berry Juice — - in 3 m & 1/2 -
In Huckle Berry Juice - in 12 m.
In Black Berry Juice — in 7 m:
In Rhaspberry Juice — in 5 m & 1/2 -
In Beech Juice - convulsed died in 25 m:
In Plum Juice - ~~no Effect~~ no Effect - in 13 m: n.
In Water Melon Juice - more y: Water.

6 Fœtid Substances

In watery Ext. of Asafœtida. died in 27 m:
Onion Juice — died in in 3. m & 1/2 see Class
Sem. Santonica — no uneasiness above 1 Hour. n. 227

10th: Aromatics

In Camphor — 5 Minutes
In Pimento — 3 m & 1/2
In Black Pepper — 45 m:
In Mustard — near 1 Hour.

7 Essential Oils.

In a few Drops of Oil of Wormwood — in 3 m: cond:
In — of Mint — in 3 m:
In — of Caraway Seed — in 3 m:
In Oil of Amber — — in 1 m & 1/2
In Oil of Aniseed — — 4 m & 1/2 —
In Petroleum — — — 8 m: — in Hand of
Oil of Turpentine — — — — 6 m: Travels
near

8 Arsenic.

In a watery Sol: of Arsenic — lived ~~[illegible]~~ 2 Hours
In D° of Realgar — — — lived near D°

9 ~~Sweet~~ Saccharine Substances

In Honey — died — in 7 m:
In Molasses — — — in 7 m:
In Brown Sugar — — in 1/2 an hour
+In Oxy Sulphit — — in 3 m. & 1/2.
In Manna — — In 2 m: & 1/2 —

10th Anomalous Substances

+ a Solution of
In Gum Powder — died in 1 m & 1/2 —
In ℞ dissolved in Oil — no Effect — lived 2 Hours
Ethiops Min.l — no Effect — lived 2 Hours
Soap — no Effect 19 m: 2 Hours

10 Anomalous — cont?

crude Antimony — no Effect —

Oil — no Effect — Worms don't breath — taken from Oil!! destroying thy Botts in Horses — these breath — are from Flies —

Mellhaz!

no Worms

Cow Itch

Tin —

Sand.

on ye whole attend to the Dictates of nature — wise in preserving Health, altho' not always ~~infallible~~ right or powerful in restoring it. Childn call first for Salt — Sugar & Fruits &c

the Syr: of Cabbage Tree Bark — excellent.

To Dr Gaddes

Sir,

I ~~[illegible]~~ Ever since I began the study of Physic I have been taught to esteem the Name of Dr Gaddes. But never had our heard so much of it within these few weeks I have heard so much of your Principles Maxims - & Practice in Medicine ~~that~~ from Mr John Bowman - ~~a Gentleman~~ (of Georgia) that I have prevailed upon myself to take the Liberty of writing to You. Where there is anything like a Sympathy of Opinions there will be an Attraction of Heart. I shall beg Pardon for so poor an Introduction to this Letter as my Attachment to you may be charged as much upon a Partiality to myself as a Regard for You - ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ than

Acc.t of the Influenza in 1771-2.

+ Cold Epidemic here generally every winter.
soon after Christmas — Defin.n of a Cold.
— Is contagious — the Contagion of Animal
Origin — Story from St Kilda & mid Spays — the Cold
worse this year than formerly — owing to
the Weather being so variable — warm
succeeding cold — seldom 3 Days alike — Winds
from every Quarter in a Day accomp.d the wind
— warmth — Moisture — Rivers three or four
times frozen over ~~in that~~ thawed in the Space
of 2 Months. — Began in some w.th the Chillness
— 40 or 50 time a Day — ~~Cain~~ Stoking aw.y
the Nose — Pain over the Eyes — Forehead — Some
of violent Pains in the Jaws — Toothach — Stiff
Neck — Some of Pains in the Ears & Deafness — In
most attended w.th ~~Cain in the~~ Oppression at the
Breast. ~~Some~~ & Cough — Many sore Throat

because he thinks or acts like ourselves
~~we~~ may be constr. into self Lov-e. But
Notwithst. is is the Voice of most of our
Attachm.ts & in the End appears cont.
for wise Purposes in ye Oeconom of ye World.

I shall begin this Letter

& Hoarseness - some Pain in the Side shifting
~~to~~ to Back - almost as low as ye Kidneys - some
suddenly of Giddiness & ~~pain~~ Bones, some vomited - the
comp: ~~Coughy~~ of their Heads, & - In a word wh
Disease seemed to affect those Parts most w:
were previously weakened ~~or~~ or disordered the
Comment De Logan - some had some Impetus inside out,
all were Chilly - this
Chilling period: - in some Quotidian - in
Others tertian - The Intermittents very com:
:mon in Autumn - Pulse notwithstanding
hard - active - sometimes ~~ab~~ slender
~~active~~ & full - Blood drawn at first seldom
very sizy - but Afterwards more so - some
required three or four Bleedings before the Inflam^n:
Symptoms Abated - The Treatment of this
Disease was simple - always yeilded to Of:
- Low Diet - entire Abstinence from Flesh - wine
& every thing else w^h tended to support ye Colonel
Adage very common ~~with~~ & Meals followed
by the common People in this Country of stuffing
a Cold. Blisters sometimes necessary to the Eyes -

Neck - Sides &c according as affected. Such as recovered slowly rec.d great & sudden Relief from Vomits. — Confinement useful - diluent Drinks - Laxative Med.s - & in a few Cases the diaphoretic Preparations of Ant.y - parti.y Ipecacuanha were given w.th Advantage. —

March 1771. –

Acc.t of an Hydrocephalus internus.

A negro Girl of 9 years of age belonging to John Potts Esq.r of this City – was seized was a Pain in her Breast & from the usual Other Symptoms w.th accom=panied a Cold w.ch was then Epidemic in y.e City. – I ord.d her to loose Blood – & gave her some opening Med.s – She grew better – ~~but & so the~~ ~~Pulse~~ comp.d of nothing – Appeared Dull – But as her Pulse was regular – rather slower than natural – I attrib.d her Dulness to y.e gen.l Dejection w.ch the negroes on this Country show upon the most trifling Indisp.n – 8 Days after the first of her Complaining – had Fits ~~soon~~ soon in y.e morning – – Lay afterward ~~Lifeless~~ motionless & speechless Pulse uncommonly slow – ~~yet~~ Alarmed at these Symptoms I began to suspect Worms & asked if she had ever had ~~of~~ any Symptoms of them – far from it – uncommonly Sprightly till the Day she was seized w.th the Disorder in her Breast. I

nor Limbs.

gave 6 grains of Ext Tartari - to no Effect -
- after? Blisters to ~~many~~ the Back - Limbs - but no
Purpose - did not even excite ye least laxn.
- ord: Glysters - & Cataplasms - Still cont:
insensible - Pulse revived - grew quite cheerfull
on the 10th Day - I now thot of the Hydrocephalus
~~but could not~~ a Disease w: I am very apt to
suspect since read Why Dr Fothergill in Med.
but could not ~~give~~ admit the Notion when I
recollected ye ~~it did not~~ the Disorder did not come on
in the slow Manner described by Dr Whytt &
ye it wanted ~~so much~~ several of ye Stages & most of
the Symptoms described by Dr. Fothergill. The
nurse was heard to complain of her "Head" - or
of a "Sickness at her Stomach" &c. She died on the 13
~~She died~~ her Death 2 Days before her Right Eye closed - & her whole right
side became paralytic -, I found no Diffy.
in getting the Consent of her Mother to open her.
- Upon opening the Abdomen & examining each
Gutt carefully found no Worms - but as

unusual Quantity of Slime - Upon dissecting the Thorax found the Lungs slightly inflamed. - I now opening the Brain. ~~with a Certainty of find.~~ ~~the Seat of the Disease~~ The Blood Vessels a good deal turgid - Upon thrusting a Knife into the left Ventricle a Gill of clear Water ~~so~~ was discharged - none of the other Ventricles contained any. - It was now fully convinced that this was the Cause of her Death. Shall be happy if this Part adds any thing to Knowledge in this Subject - it may be often to ascertain the Species & Variety of this Disorder tho' inscrutable - ~~May it be~~ are they not Diversify'd by the Seat of the Water - There merely Dr Wright found in the Anterior Ventricle only. How far the Sac of Hemisphere in Le - want of Fickness - Head ache may indicate the Water being located in the later Ventricles future Dissections must discover.

To Dr Hack. Yours &c B Reede

Danl Sowder - aged 14 - compl^d in March of Pain in his side - Cough - Fever - was bled plentifully - blistered &c - Pain, shooting thro his Shoulder - could not lie on his left side - Most acute pain in his side on the 8 Day - After this Chillness - cold sweats - Pain now abated - But Diff^y of breathing cont^d attended wth a Sniffling & an Expansion of the Rima Nasi in Inspiration - large swelling in his Thigh & Leg - at first phlegm: but afterwards Oedematous - all Pain now vanished - could lie alike on both sides - Diff^y of breathing & Restlessness of Frame: At a Loss to know w^t it was - One While Hepatitis - from Decub: - pain in ye Shoulder: - ~~&~~ Slight Cough - & lastly the swelling wch resembled a Cessmentd: by Morgagni - no ~~lim~~ swelling - or tightness there - when ye Diff^y of breathing came on suspected Water on ye right Side, or ~~Ep~~ Empyema. - Certain of an Abscess

Enquiry into y Cause of Sleep & Dreams.

~~Sleep is brought upon by~~ Sleep is ~~but as by the following Causes.~~

~~1 By Compression or Opiates. 2 Cold. 3 Opiates.~~ ~~This is what was~~

I do not intend in the following Essay ~~to~~ to enquire into the Cause of y Sleep which is brot on ~~by Artificial Means such as~~ by the Sedative Action of Cold or Opiates, but shall confine myself only to ~~that~~ that Sleep wch is Natural, ~~which occurs before~~, the Causes wch in our Sleep have been supposed to be either a Compression of the Brain, or a Depletion of a Fluid which is secreted in y Brain, & conveyed thro the Nerves ~~out of~~ from the Body, ~~&~~ we shall briefly consider each of them.

A Compression of the Brain from ~~the~~

Effusions of red Blood, or Serum - from Tumors or external wounds we grant ~~never~~ seldom fails to produce sleep. ~~as we see in the~~ Apoplexy But this Sleep is of a morbid nature. It is the pathognomic sign of an Apoplexy. It exceeds Natural Sleep both in its Degree & Duration. The Phenomena of Sleep in general - particularly the sudden sleep in which we wake from it prove that it cannot depend upon a Compression of the Brain from any of those Causes which have been called into account for it. —

That Sleep does not depend upon an Exaustion of a fluid secreted in the Brain & conveyed from the Nerves we infer from 1st the Possibility of bringing on or putting of Sleep at our Pleasure 2 from the Phenomena of many Diseases in which we observe Patients live several weeks without it, & lastly from the Analogy of the other Secretions which we see performed in the waking as well as in the Sleeping State. — A Fluid we grant is secreted in the Brain & conveyed by the Nerves. but ~~this~~ ~~the~~

i

so far from being wasted I believe wth ye illus-
-trious ~~Dr Cullen Dr Brocklesby &c~~ Dr Cullen is
applied to nourish ye Body.

In Order to render the Theory of the Cause of
Sleep as clear as possible I shall ~~Deliver~~ begin a few
preliminary Observations upon the part of the
Animal Oeconomy by Observing that
The human Body is provided wth a nervous
System. ~~which~~ The Nerves are distributed to
every Part in such Manner that we Observe
every where either Sensibility or Irritability.
By the first is meant a ~~power~~ feeling, by the
2nd a moving Power. - These powers or Properties
of the human Body are diversified in such
a Manner as to form 5 ~~distinct~~ Senses ~~&c~~ each
~~which~~ each of which is endowed wth such distinct
& peculiar Sensations that there is not a material Object
in Nature which is not subjected to them, or of w^ch^
they do not convey some Knowledge to the Brain
the Seat of the Mind & common Origin of

the nerves. There is a perpetual succession of & vast variety in the impressions from external Bodies which keep the Body in what Dr Cullen calls an excited state. - Light - Sound - Cold - Heat - & the Action of ye Muscles all ~~and to are the~~ ~~impressions we speak of.~~ - ~~Besides these there~~ together with ~~are~~ certain internal impressions or stimuli arising from reflex sensations which all tend to keep up the Excitement of the System. Now let all these be removed - let a Person at any time of the Day shut himself up in dark Room remote from ~~the~~ noise of every kind - let him lay down on a warm Bed upon his Back for in this Posture fewest Muscles are brought into Action. - Let him cease from thinking, especially upon those Subjects w^h are accompanied wth reflex Sensations, & the Consequence will be ye Person thus situated will soon sleep. The Human Body therefore is not as Dr Boerh: supposes an Automaton or self moving machine in the strict Meaning of ~~that~~ those Terms. It stands in ~~the~~ need of the constant Action of Stimuli or Impressions to keep it in motion. The

waking state is a state of Violence to the System. The Presence & Alternate Action of Impressions on ye Body are y^e: only Means of preserving Life, & should these be abstracted for any Length of time, Life would be extinct. — ~~The Cause~~ of Natural Sleep then as I apprehend consists in nothing else but an Absence of Impressions from the System. But the mere Absence of Impressions is not sufficient to bring on Sleep. — This is but a remote Cause of it. we shall now enquire into the proximate. The Brain likewise Other Part of ye Nervous System is liable to the Alternate States of Tone & Atonia. — In the waking State we Observe it to be tonic if I may be allowed the Expression. The more complete this Tone the more Vigor we Observe in the ~~whole~~ System. This Tone in ye Brain is kept up by the constant Action of ye Impressions we have mentioned. In Sleep the Reverse of this takes place. From the Abstraction of the Impressions

an Atonia is brought on the Brain. ~~This Atonia is sometimes called~~. It is ~~that~~ this Collapsed state of ye Brain wch constitutes ye proximate Cause of Sleep. It is generally brot on gradually. If it comes on too suddenly a Convulsion is brot on ye System wch is commonly called Starting in our Sleep. This is occasioned by the sudden Loss of Tone in ye Brain - hence we find we are most liable to it when we fall asleep immediately after getting into Bed. We see something like this in Hæmorrhages. A Man who can loose ℔ 8 of Blood by a gradual Emaciation ~~will without fainting~~ will be thrown into ~~a~~ Convulsions by loosing only ½ that Quantity at One time. ~~Now~~ The regular Times of sleeping & waking are to be resolved ~~into~~ like many Other Motions in y^e System into Habit. The Use of Sleep is to restore y^e System - ~~It is~~ for the Body is so contrived that the Alternate states of Excitement, or the want of ~~time~~ it ~~no~~ impart

Increase the Strength & Vigor of y^e Body.

From ~~the~~ w^h we have said we may ex=
=plain y^e Reason why certain simple Sounds
such as y^e Eolian Harp – the Noise of a falling
Stream of Water – the gentle Beating of Rain
upon the Roof of a House, or any Other
Impression w^h is not accompanied w^h the
reflect Sensation brings on Sleep. By fixing
y^e Attention of y^e Mind to One ~~Object~~ Impression
only it renders it insensible to every Other,
so y^t the System having few Impulses to over=
=come soon sinks into ~~an~~ Equilibrium
or State of Rest. I can at any time bring
Sleep upon myself in Bed in a Manner
analogous to this, that is by fixing my Thoughts
entirely on One Subject. I always take Care
not to let this Subject be of a very interesting
Nature. ~~so~~ We may learn likewise the
Reason why People in deep Distress Sleep so

soundly. I have heard the Reality of the most poignant Grief called in Question from this Circumstance. It is owing to ye Mind's fixing itself solely upon One Subject. Sudden transitions from One Subject to Another tend to keep off Sleep as every new Subject is a fresh Stimulus or Impulse to ye System. ~~whereas an Attention to One only~~ & which in time begets an Insensibility to itself even tho' it be accompanied w: reflex Sensations.

This is sometimes the Case w: Persons in Love. ~~The~~ The Mind is then agitated betwen Hope & Fear. Hence all the Poets & Philosophers have described the Lover as unable to sleep. Dr Horne Words upon this Subject are truly elegant.

"Somnus edice vocatus usque ad Auroram "desivit." —

We come now to enquire into the Cause of Dreams. without taking Notice of ye various Opinions concerning them I shall go on to ~~Observe that Dreams are by no means~~ ~~necessarily~~ ~~connected w:~~

Sleep. I adopt the notion of Mr Locke in supposing that the Soul does not always think & join w him in the following solid Reasonings, deliver an Opinion founded upon the Sleeping Case of the Cause of Sleep. — ~~Upon Opinion~~ We all acknowledge the Union of the Soul & Body to be such y: the Faculties of the former requires a certain Tone or healthy State of the latter in order to exercise themselves properly. Different Deviations from this occasion different Deviations ~~from~~ in these Faculties from ~~want of perception~~ a mere Loss of Memory down to entire Want of Perception or State of Idiotism. In an entire Collapse of the Brain there is a complete Suspension of every Faculty of the Mind — But when ~~this~~ from the Presence of some particular Impression this is not the Case, ~~then~~ this entire ~~Brain remains much acted~~ Collapse does not take place they the Faculties of y: Mind are exercised, ~~& that too~~ in Proportion to the Tone ~~Quantity~~ of the

Impression, or ye Quantity ye Brain which remains in an excited state. ~~Of this we shall say more hereafter.~~ — On ye mean ~~the Lowest Degree of Excitement~~ where ye Impression is inconsiderable & ~~the~~ only a small part of the Brain is excited the Imagin: ~~only~~ alone is employed — when the Excitement is a little greater than this we have some Degree of Memory — & in that state of Collapse w: Gordes ~~must~~ upon ye waking state we possess a share of Understanding & ~~time we go to sleep~~ time from w: we have said we may explain several Phenomena of Dreams. — ~~It has long been a fact~~ ~~That~~ we often see Persons in their Sleep perform several Animal Functions, particularly that of Walking. ~~Therefore~~ In the waking State we know that there is a constant Influx from the ~~Brain~~ Brain into all the muscular Parts of ye Body, now in ~~Sleep that is~~ those Persons who walk in their Sleep that part of the Brain which conveys the nervous Influence to those Muscles which are

brot into Action remains in an excited State.
The Reason why Bad Motion more fatigues
is because they are not acc[ustomed] ~~to Motion~~ which
we learn likewise ye Reason why People who
Sleep uneasy, - whose Minds are much interested
in any particular Subject, or who are exposed
to Impulse from any Other Cause are generally
ye greatest Dreamers. The entire Abstraction of
all Impressions is Absolutely necessary in Order
to admit of a complete Collapse of ye Brain. we
learn further why a dark & silent ~~Ro~~ Chamber &
a Soft Bed - previous Labor or Exercise - lying
upon ye Back, & lastly why Tranquility of Mind
~~exempt~~ ~~cause a~~ Man ~~a~~ ~~[illegible]~~ from Dreams. When Impulse
from all Quarters is removed, & there is Nothing
to prevent an entire Collapse of ye Brain. ~~Lo~~
The idle & luxurious are generally the most prone
to Dreaming from the disordered State of ye Body
w^h Plenty & Luxury bring on. Labourers seldom
dream much. Besides these easy People ~~no~~ never
dream at all. ~~Lucas~~ Mr Lorie tells us a Story of

a Man who never dreamed till after he had been afflicted wth a Fever in the 25 Year of his Age. Dreams therefore should be looked upon as a Morbid State of the Body, & that too in Proportion to the Nature or Number of the Faculties of ye Mind wch are ~~distributed to~~ exercised in them. —

In Order to show that this partial Collapse of ye Brain takes place in Dreams we shall ~~we shall it will~~ ~~show the analogy between them~~ trace the analogy between them, & the State of ye Faculties in Disorders of Brain, for Compression let it arise from w^t Cause it will produces exactly the same Changes upon the Faculties of ye Soul, ~~as~~ with this partial Collapse. In the 1st place we Observe in many Diseases particularly Fevers a Want of Understanding - or false Perceptions. Persons are called by ~~the~~ wrong Names, & mere Shadows are mistaken for Objects ~~full~~ of Terror or Fury. 2 we Observe a Want of Memory in many Diseases but more especially in ~~the~~ Fevers. How Often do we hear them call for something to eat or drink, & yet in

a few Minutes forget their having for any thing. 3 We ~~often~~ sometimes Observe an Abuse of ye moral Faculty in ~~mad~~ Disorders. I have ~~heard of some~~ heard an ~~young lady~~ old man of the most exemplary Virtue utter some impious expressions in the last Stage of a Phrensy which shocked all the Bystanders ~~and had the same in his healthy State he w^d~~ have died sooner than ~~attempted~~ commit formerly of the most amiable tempers. How often do we see maniacal patients perpetrate the most enormous Crimes such as Ingratitude - Revenge - Suicide &c. ~~Many~~ Instances of this kind might be mentioned without number.

— Now do we not Observe something strictly analogous to these things in Dreams. — In ye 1st place we Observe a Defect of Understanding. We dream of y^e ~~most~~ greatest Absurdities without being in ye least surprized at them. Thus I have dreamed of seeing the Point of a Lancet blaze for some time like a Candle without once reflecting that the Metal of wch it was made was incapable of Inflammation. 2 In Dreams we Observe a Want of Memory. Who has not dreamed of seeing

Persons & Objects which ~~we are sensible~~ we were sure were either dead, or removed from us the want recollecting these Circumstances? But 3ly In Dreams there is sometimes an Abuse of the moral Faculty. Hence we find many People dream of violating the sacred Laws of Honor, Chastity & Justice ~~[illegible]~~ at which they would have shuddered in ye waking Hours. — This fact by the by proves above all things ye divine Original, & congenial Nature of ye moral Principle. It is interwoven in our very Constitution — ~~[illegible]~~ and exists there antecedent to all knowledge or Ideas acquired by Sensation or ~~[illegible]~~ Reflection. The different modes of Education & ye Customs of different Nations may alter or corrupt it, but this no more changes its nature, than ye Jaundice does ye real Colour of any Object,

or Blindness extinguishes the Sun. The Man therefore Who looses, or corrupts this Principle labours under ~~the same~~ misfortune ~~that a Man does who~~ not much unlike his Who looses his Memory - Understanding, or Taste ~~by~~ from some external Causes. It is no Proof of the want ~~[illegible]~~ of a reasoning Faculty that the Mind when clouded by Prejudice or overawed by Superstition admits Things for Truths which are evidently false. - nor is it any more a Proof of our wanting this moral Faculty that Different Nations have ~~had~~ made Different Things Objects of it, insomuch that in some Places Virtue has been called Vice & Vice Virtue. - This Argument if pursued a little further would Shew much more with Regard to primary Truths, or those Things wch are properly intuitive becomes a Crime. the Man who calls Good, Evil, & Evil, Good, who pleads the Authority or Universality of Example

in Fav or of w: is contrary to ye Nature of things or — Who rejects the Evidences of Nature or revealed Religion, is as much to blame as he who voluntarily destroys his Memory or Understanding by Spirituous Liquors, or Other Acts of Intemperance, for ye moral Faculty, or as it hath been lately called the Principle of common Sense +, is naturally coeval wth them, & is alike an essential Part of y^e: human soul. to return

I am at a Loss to say in w: Order these ~~Other~~ three Faculties of the Mind are Suspended in Dreams. - Perhaps it is different in different People, & at different times. - But of this we are certain that ye moral Principle is often ~~Actual~~ suspended both in

+ ~~See~~ Reids Enquiry, & Beattie's on Truth.

Dreams & in certain Diseases when there are the most evident Proofs of Memory & considerable ~~Loss~~ Dues of Understanding, so that it cannot be supposed that it owes its Seat in ye Mind to Experience or Reflection.

The Soul ~~to~~ we see then is active in the Sleeping as well as in the waking state. This we may infer not only from the most active Faculty the Imagination being concerned in it, but from the Subjects of Dreams having so little Relation to the Occurrences or Thoughts of the preceding Day. The Mind in Dreaming proceeds in ye same Manner in its Transitions from One Subject to another as in in the Waking state ~~and~~ ~~only~~ with this Difference ~~in~~ that its Operations ~~then~~ from the want of a due Tone in ye Brain ~~dis~~ are irregular & ~~inconsistent~~ herein. Should we therefore admit to Baxter the Agency of immaterial Beings upon our Minds, in

see Dem: Phil: Vol: i p: 337.

we can hardly believe if we suppose them to be intelligent that they would chuse so improper a time as sleep to instruct or reveal future Events to us, seeing both Instruction & Prophesy w.ch be so liable to be forgotten or from their Incoherence to be disregarded. There is a fact ~~in the~~ w.ch has been but little attended to ~~by the~~ w.ch shows how much the Mind ~~when~~ in Dreams exercises itself in y.e same way as in the waking state, ~~& therefore that it is not proper~~ ~~or does not guide the actions~~ Such as know w.t it is to feel a strong Attachment to Relations or Friends can witness how very difficult it is to summon y.m to our Imagin.n a Picture ~~an idea~~ of them when they are Absent from us. Our Recollection of y.m at all times proceeds from a deliberate act of memory, but is seldom so vivid as to have a place in y.e Imagination. Do we not Observe something like this in Dreams. How difficult do we find it to dream of such Persons or Objects as are dear to us? I have hear a Woman say that she never dreamed One of a Son who was 3 Years Absent from her

Altho' she seldom past an hour of her time when awake wont thinking of him.

I conclude therefore that there is nothing omnious in our Dreams nor in our waking Thots. One in an hundred times, we may see Events which bear some Relation to our Dreams but these are trifling when compared with the Relation our waking Thots bear to future Events, & yet these have never been regarded as Omnious. Dreams therefore like many other Phenomena of the Mind depend entirely upon physical Causes.

Let it not be urged against me, that Dreams are spoken of as omnious in the Scriptures. In those Cases where they were consistent, or were some important Purpose were brot about by them, they are to be looked upon as supernatural. Here our Inquiries are therefore ought to cease. But I am far from thinking that in all Cases they shd be regarded as coming from above.

Magnifying age & Sanction in all Ages & There is a natural Propensity to Superstition in y. human Mind & Religion is so far from curing the Mind of ~~Superstition~~ this ~~that~~ that we find it even ~~confirmed~~ cleaving to Inspiration itself. Besides the Revelation in y. Scriptures was ~~not~~ not intended to overthrow common false Notions in indifferent Matters any more than it was to deliver a System of natural Philosophy. To argue ~~that~~ therefore in Favor of Dreams being ominous, or of divine Original from the Belief w.ch good Men entertained in them is as absurd as to argue in Favor of Polygamy or Lying from the Practice of Abraham or Rahab. It is a Proof of y.e divine Goodness w.ch cannot be too much acknowledged the concealing future Events from us. Some owes much of y.e Joy it imparts, & Evil is greatly lessened by our not expecting either of y.m —

"Blindness to y.e future be

To suppose further that the Deity interposes in revealing all the little Incidents w.ch happen in y.e narrow Circle in w.ch Dreamers usually move is at once dishonorable to Religion & common Sense.

Laſtly at it again therefore ye as Dreams can be ſaid from Phyſical Causes, they are to be ~~be~~ not to be looked upon as ominous any more than Thunder. To be diſtreſſed or pleaſed about Futurity by Dreams, ~~or~~ is as abſurd as to attempt to explore future Events from the Raving of a Madman, or a Reason in a Fever. as They are both occasioned entirely by physical Causes. —

I shall conclude this Eſſay by adopting ~~the~~ Opinion ~~of~~ Mr Locke's of the Soul not always thinking. In a compleat Collapſe of ye Brain all there is certainly an entire Suſpension of the Faculties of ye Soul. Mr Locke's Reasons for this Opinion are so strong & convincing that I shall finish this Eſſay by transcribing them. "

Thinking does not constitute ye Soul any more ye Motion does ye Body — is only ye Property of it.

Hemoptoe	1.
Epilepsy	5
Bothrina	9.
Hypocondriasis	13.

Order

1 Diseases of Indians
2 Climate
3 Bilious fever
4 Scarlatina
5 Cholera Infantum.
~~6 Cold water~~ ~~Pneumonia Incidalis~~
6 Pneumonia Incidalis
7 Obstinate Intermittents
8 Cold water
9 Hæmoptysis.
10 Consumptions
11 Worms
12 Tetanus
13 Hosp.l Diseases
14 Effects of ventilation